

Chemical Information:

Name: L-Ascorbic acid
CAS No.: 50-81-7
Tox21_ID No.: Tox21_202127
NTP_CID No.: 899

Supplier: Sigma-Aldrich
Lot No.: 10126LB
MW: 176.12 g/mol

Dates of Analysis:
LC/UV: 09 August 2017
LC/MS: 08 August 2017

Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
Unknown	1.53	1.97
L-Ascorbic acid	2.18	92.64
Unknown	2.54	5.06

^a Peaks comprising $\geq 0.5\%$ of total area.

Instrument Parameters:

Instrument / Ionization	Waters HPLC; API-4000 / ESI-
Solvent	Methanol
Column	Grace Alltima C18, 5 μ m, 250 mm x 4.6 mm ID
Injection Volume / Detection	10 μ L / 215 nm
Mobile Phase	Water (A) / Methanol (B)
Program / Flow Rate	50/50 A/B for 20 minutes; 0/100 in 10 minutes, hold 10 minutes; 50/50 for 25 minutes / 1.0 mL/minute
IonSpray Voltage	-4000 V
DP / EP	-100 V / -10 V
Source Temperature	300°C
Scan Range	100 – 500 amu
Acquisition Software	LC/UV – TotalChrom, v 6.3.0.0445; LC/MS – Analyst v 1.63

